

## **ENGINEERING TECHNICIAN – DESIGN**

### **Definition**

Under general supervision, performs basic engineering, complex drafting and related technical work in a wide variety of public works projects, occasionally act as a member of a survey party, and performs related technical tasks as required.

### **Examples of Duties**

Duties include, but are not limited to, the following: performs difficult drafting on “AutoCAD” and in ink and pencil including preparation of construction drawings and basic designs using “AdCADD” for streets, buildings, sewers, storm drains, traffic signals, channelization improvements and other public works projects complete with plans, profiles and cross sections; may reduce survey field notes; compute traverses and plot resulting data to prepare topographic maps, property and description maps; prepares annexation maps, assessment district plans, and plan-line documents; prepares visual aid exhibits; maintains City maps in current status; maintains drawing files and file data base and records of streets, sanitary sewers, storm drains and buildings; operates blueprint machine; responds to investigation requests for citizens; may act as rodperson on a survey party performing topographic, property and construction surveys; may be called upon to perform Traffic Engineering Technician duties in that person’s absence; prepares sketches and makes calculations related to foregoing assignments; maintains and updates computer drafting standards and standard details; answers questions of the public.

### **Employment Standards**

#### **Experience and Education**

Any combination equivalent to experience and education that likely provides the required knowledge and abilities would be qualifying. A typical way to obtain the knowledge and abilities would be:

*Education:* Any combination equivalent to graduation from high school, including or supplemented by courses in drafting and trigonometry.

*Experience:* Four (4) years of experience in engineering drafting with some survey experience. Education or experience with “AutoCAD” is highly desirable.

#### **Knowledge and Abilities**

*Knowledge of: Engineering* drafting and surveying methods, techniques and instruments.

*Ability to: Make* mathematical calculations quickly and accurately; understand and follow oral and written directions; supervise and train others; get along with others; good communication skills.